

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An article for measuring external drug transfer to skin surfaces, consisting of:

a polyolefin substrate film including at least one of the group consisting of polyethylene and polypropylene, the film having a weight-average molecular weight between about 3 and about 6 kilograms/mole; and

a skin-adhering element attached to the polyolefin substrate film, the skin-adhering element including an adhesive including components each having a minimum molecular weight of at least 1,500 daltons, wherein the film is free of aromatic organic compounds, polyenes, acrylates, esters, waxes, dimethicones and silicone-based compounds.

2. (Original) The article of Claim 1, wherein the film has a weight-average molecular weight between about 3 and about 4 kilograms/mole.

3. (Original) The article of Claim 1, wherein the polyolefin substrate film comprises a surface texture having a roughness, calculated as an arithmetic sum of all deviations about a best-fit mean plane through topographical surface data, of between about 19 and about 32 microns.

4. (Original) The article of Claim 1, wherein the polyolefin substrate film comprises a surface texture having human skin topography.

5. (Currently Amended) The article of Claim 1, wherein the ~~skin-adhering element comprises an adhesive~~ is selected from the group consisting of a polyacrylate ester based hydrogel adhesive, a polymethacrylate ester based hydrogel adhesive, a high solids moisture resistant latex pressure-sensitive adhesive, and a polyalkyloxazoline-reinforced acrylic pressure-sensitive adhesive.

6. (Canceled)

7. (Original) The article of Claim 5, wherein the adhesive has a boiling point of at least 250° Celsius.

8. (Original) The article of Claim 1, wherein the skin-adhering element comprises an electrostatic adhesive.

9. (Original) The article of Claim 8, wherein the polyolefin substrate film has a thickness of less than 80 microns.

10. (Original) The article of Claim 1, further comprising packaging materials in contact with the polyolefin substrate film, wherein the packaging materials are non-interfering with respect to analysis of the drug being measured.

11. (Original) The article of Claim 1, wherein the polyolefin substrate film has a shape selected from the group consisting of triangular, square, circular, oval, rectangular, octagonal, and hexagonal.

12. (Original) The article of Claim 1, wherein the polyolefin substrate film has a maximum length of between about 1 centimeter and about 10 centimeters.

13. (Currently Amended) An article for measuring external drug transfer to skin surfaces, consisting of:

a polytetrafluoroethylene substrate film having a weight-average molecular weight between about 35 and about 65 kilograms/mole; and

a skin-adhering element attached to the polytetrafluoroethylene substrate film, the skin-adhering element including an adhesive including components each having a minimum molecular weight of at least 1,500 daltons, wherein the

polytetrafluoroethylene substrate film is free of aromatic organic compounds, polyenes, acrylates, esters, waxes, dimethicones and silicone-based compounds.

14. (Withdrawn) The article of Claim 13, wherein the film has a weight-average molecular weight between about 45 and about 55 kilograms/mole.

15. (Withdrawn) The article of Claim 13, wherein the polytetrafluoroethylene substrate film comprises a surface texture having a roughness, calculated as an arithmetic sum of all deviations about a best-fit mean plane through topographical surface data, of between about 19 and about 32 microns.

16. (Withdrawn) The article of Claim 13, wherein the polytetrafluoroethylene substrate film comprises a surface texture having human skin topography.

17. (Currently Amended) The article of Claim 13, wherein the ~~skin-adhering element comprises an adhesive~~ is selected from the group consisting of a polyacrylate ester based hydrogel adhesive, a polymethacrylate ester based hydrogel

adhesive, a high solids moisture resistant latex pressure-sensitive adhesive, and a polyalkyloxazoline-reinforced acrylic pressure-sensitive adhesive.

18. (Canceled)

19. (Withdrawn) The article of Claim 17, wherein the adhesive has a boiling point of at least 250° Celsius.

20. (Withdrawn) The article of Claim 13, wherein the skin-adhering element comprises an electrostatic adhesive.

21. (Withdrawn) The article of Claim 20, wherein the polytetrafluoroethylene substrate film has a thickness of less than 80 microns.

22. (Withdrawn) The article of Claim 13, further comprising packaging materials in contact with the polytetrafluoroethylene substrate film, wherein the packaging materials are non-interfering with respect to analysis of the drug being measured.

23. (Withdrawn) The article of Claim 13, wherein the polytetrafluoroethylene substrate film has a shape selected from the group consisting of triangular, square, circular, oval, rectangular, octagonal, and hexagonal.

24. (Withdrawn) The article of Claim 13, wherein the polytetrafluoroethylene substrate film has a maximum length of between about 1 centimeter and about 10 centimeters.

Claims 25-35 (Canceled)

36. (Currently Amended) An article for measuring external drug transfer to skin surfaces, comprising:

a polyolefin substrate film including a skin-adhering surface, the skin-adhering surface consisting of a skin-adhering element attached to the polyolefin substrate film, the skin-adhering element comprising an adhesive including components each having a minimum molecular weight of at least 1,500 daltons wherein the polyolefin substrate film is free of aromatic organic compounds, polyenes, acrylates, esters, waxes, dimethicones and silicone-based compounds.

37. (Previously Presented) The article of Claim 36, wherein the polyolefin substrate film comprises at least one of the group consisting of polyethylene and polypropylene, and the film having a weight-average molecular weight between about 3 and about 6 kilograms/mole.

38. (Previously Presented) The article of Claim 37, wherein the film has a weight-average molecular weight between about 3 and about 4 kilograms/mole.

39. (Previously Presented) The article of Claim 36, wherein the polyolefin substrate film comprises a polytetrafluoroethylene substrate film having a weight-average molecular weight between about 35 and about 65 kilograms/mole.

40. (Previously Presented) The article of Claim 36, wherein the polyolefin substrate film comprises a surface texture having a roughness, calculated as an arithmetic sum of all deviations about a best-fit mean plane through topographical surface data, of between about 19 and about 32 microns.

41. (Previously Presented) The article of Claim 36, wherein the polyolefin substrate film comprises a surface texture having human skin topography.

42. (Currently Amended) The article of Claim 36, wherein the ~~skin-adhering element comprises an adhesive~~ is selected from the group consisting of a polyacrylate ester based hydrogel adhesive, a polymethacrylate ester based hydrogel adhesive, a high solids moisture resistant latex pressure-sensitive adhesive, and a polyalkyloxazoline-reinforced acrylic pressure-sensitive adhesive.

43. (Canceled)

44. (Previously Presented) The article of Claim 42, wherein the adhesive has a boiling point of at least 250° Celsius.

45. (Previously Presented) The article of Claim 36, wherein the skin-adhering element comprises an electrostatic adhesive.

46. (Previously Presented) The article of Claim 36, further comprising packaging materials in contact with the polyolefin substrate film, wherein the packaging materials are non-interfering with respect to analysis of the drug being measured.